

Interoffice

Correspondence

To:

Ebi Nassiri, P.E.

Assistant Director

Engineering Branch **Engineering and Construction** 

Division

From:

Managing Engineer

Geo-Environmental Services Branch

Engineering and Construction Division

Date:

February 20, 2013

Attn:

Akhter Hussain, P.E.

Subject:

POST OAK LIFT STATION DEMOLITION

322½ N. Post Oak Lane WBS NO. R-000267-0109-3

Attached are two copies of the asbestos and lead survey reports for the subject property, prepared by Technology Serving People, Inc. (TSP), the City's consultant for the subject project. The consultant's findings and recommendations are summarized below:

### **ASBESTOS**

### Findings:

A total of three (3) bulk material samples of flange gaskets were taken with suspect Asbestos Containing Material (ACM). All samples were collected from areas within the subject property and analyzed for asbestos content (See Sections 2 through 4 of the asbestos survey report). Samples were analyzed by using Polarized Light Microscopy Method (PLM).

Approximately ten (10) drop gaskets at pipes, pumps, and pipe fittings were observed, but they were not accessible for sample collection.

Analytical results indicated that no asbestos content was detected from all samples collected. All samples were < 1% asbestos. (See Sections 2 and 4 of the asbestos survey report).

### Recommendations:

- During the renovation/demolition activities, if gasket materials are discovered and they are not rubber gasket materials, they shall be sampled or assumed to be ACM.
- If the materials are assumed to be ACM, the general contractor should coordinate with an abatement contractor to schedule abatement activities. (See Section 2 of the asbestos survey report).

Asbestos and Lead Survey for Post Oak Lift Station Demolition Page 2

### **LEAD**

### Findings:

A total of four (4) paint chip samples were collected and analyzed for lead content (See Section 3 of the lead survey report). These samples were analyzed by using Inductively Coupled Plasma (ICP) method.

- > Analytical results for the:
  - o Gray paint on exterior piping had a lead content of 0.0272% by weight;
  - o Gray paint on piping in Dry Well had a lead content of 0.0291% by weight; and
  - o Gray paint on valve in Dry Well had a lead content of 0.0269% by weight.

    These levels fall under the City of Houston's Hazard Category A (Allowable Lead Level).
  - Red paint on ballard had a lead content of 0.0924% by weight.
     This level falls under the City of Houston's Hazard Category C-1 (Lead Present).

### Recommendations:

· Recycle all metal components. No abatement is required.

If you have any questions, please call Maher Tanbouz, P.E. at 832-395-2260 or T.C. Nguyen at 832-395-2258.

H:\constr\A-ENV-SB\Environmental\Abestos\_&\_Lead\A&L Assessments\2013\(R-000267-0109-3)\_(Post\_Oak\_LS\_at\_322\_N\_Post\_Oak\_Ln).doc

MT ICH MP:MT:TCN:IC

Mike Pezeshki, P.E.

Attachment: Two (2) Asbestos/Lead Survey Reports

ec: Daniel R. Menendez, P.E.

Ravi Kaleyatodi, P.E., CPM



Asbestos and Lead Survey Post Oak Lift Station FN 546 322 ½ N. Post Oak Lane Houston, Texas

WBS No. R-000267-0109-3 Task No. 12-21

Prepared for:

The City of Houston Public Works and Engineering Department 611 Walker, 14<sup>th</sup> Floor Houston, Texas 77251-1562

Inspected:

December 18, 2012

Prepared By:

Technology Serving People, Inc. 2511 Willowick, Suite 229 Houston, Texas 77027

**Submitted By:** 

Eric F. Lebroco, Jr.

Asbestos Consultant TD&HS No. 10-5375

Michael Solomon

Lead Inspector TDSHS Certificate No. 2060695

January 15, 2012

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### **EXECUTIVE SUMMARY**

Technology Serving People, Inc. (TSP) conducted an asbestos and lead survey on December 18, 2012 on the Post Oak Lift Station FN 546, 322 ½ N. Post Oak Lane, Houston, Texas. The lift station consists of an in ground poured in place concrete wet well with two pumps, and a dry well facility with the discharge piping and valves. The facility is fenced and locked. Access to the dry well is through a metal grate top. There was no information available on the construction date of the lift station and no COH drawings were available at the time of the survey. Site inspection and bulk material sample collections were conducted using standard protocols specified by the Texas Asbestos Protection Act (TAHPA), Texas Environmental Lead Reduction Rules (TELRR), and National Emissions Standards for Hazardous Air Pollutants (NESHAP). All accessible areas of the lift station were inspected.

A & B Labs of Houston, Texas, a State of Texas Licensed Asbestos Laboratory (PCM, PLM, TEM, and NVLAP Accredited) and Accredited NELAP Lead Laboratory, performed all asbestos and lead analyses.

### ASBESTOS SUMMARY

### Findings:

Three bulk material samples were collected of flange gaskets. No asbestos was detected in the samples collected.

Approximately ten (10) drop gaskets were also observed at some pipe, pump, and pipe fitting connections. These gaskets are not accessible for sample collection and should be assumed to be asbestos containing

No other suspect materials were observed.

### Recommendations:

The in-line drop gaskets should be assumed to be asbestos-containing, until flanges are broken and the gaskets can be inspected and bulk sampled, if found to be non-rubber types or abated. Break all pipe flanges; abate non-rubber gaskets by standard wet methods, bag asbestos waste, and dispose of as asbestos containing waste. The General Contractor should coordinate with the abatement contractor to schedule abatement activities. The General Contractor may opt to cut out gaskets/flange areas and have the abatement contractor pick-up the pipe segments for disposal.

The quantity of the asbestos containing material does not meet reportable limits for this NESHAP facility.

### Cost:

Ten (10) in-line gaskets for potential abatement results in \$1,500 - \$2,500 for an estimated abatement cost.

### **LEAD SUMMARY**

### Findings:

Four (4) paint chip samples were taken of painted materials and equipment at the lift station to determine lead content.

Gray paint on exterior piping (PO546-Pb-01) had a lead content of 272 mg/Kg and is not a lead based paint. The paint is in general good condition. OSHA regulations apply to workers during demolition or renovation.

Red ballard paint (PO546-Pb-02) had a lead content of 924 mg/Kg and is a lead based paint. The paint is in poor condition. OSHA regulations apply to workers during demolition or renovation.

Gray paint on drywell piping (PO546-Pb-03) had a lead content of 291 mg/Kg and is not a lead based paint. The paint is in fair condition. OSHA regulations do not apply to workers during demolition or renovation.

Gray paint on a dry well valve (PO546-Pb-04) had a lead content of 269 mg/Kg and is not a lead based paint. The paint is in general fair condition. OSHA regulations apply to workers during demolition or renovation.

### **Recommendations:**

The lift station is scheduled for demolition in the future. Recycle all metal components including those with lead containing paint. No lead abatement required.

**OSHA Requirements:** The U.S. Occupational Safety and Health Administration (OSHA) does not specify a minimum lead concentration in its lead standard. Rather, it requires all employers to determine an exposure level and provide prescribed training, personal protective equipment, medical surveillance, and record keeping.

All paint which has a detectable level of lead is considered a lead-containing paint by OSHA and should be handled in the following ways:

- 1. Notify any contractor cutting, abrading or disturbing lead containing paint that the paint contains the listed concentrations of lead.
- 2. Metal components should be dismantled by unfastening bolts where possible. Cutting, abrading or welding on painted metal components should be discouraged.
- 3. Disposal of painted metal components should be through a metal recycling company that accepts metal with lead paint.
- 4. Demolished concrete structures with lead-containing paint should be tested by the TCLP method, as required by the U.S. Environmental Protection Agency (EPA), to characterize the waste for disposal.

Cost: No lead abatement costs associated with this lift station.

### **Asbestos Survey Report**

Technology Serving People, Inc. (TSP) conducted an asbestos survey on December 18, 2012 on the Post Oak Lift Station FN 546, 322 ½ N. Post Oak Lane, Houston, Texas. The lift station consists of an in ground poured in place concrete wet well with two pumps, and a dry well facility with the discharge piping and valves. The facility is fenced and locked. Access to the dry well is through a metal grate top. There was no information available on the construction date of the lift station and no COH drawings were available at the time of the survey. Site inspection and bulk material sample collections were conducted using standard protocols specified by the Texas Asbestos Protection Act (TAHPA) and National Emissions Standards for Hazardous Air Pollutants (NESHAP). All accessible areas of the lift station were inspected.

A & B Labs of Houston, Texas, a State of Texas Licensed Asbestos Laboratory (PCM, PLM, TEM, and NVLAP Accredited) performed all asbestos analyses.

### ASBESTOS SUMMARY

### Findings:

Three bulk material samples were collected of flange gaskets. No asbestos was detected in the samples collected.

Approximately ten (10) drop gaskets were also observed at some pipe, pump, and pipe fitting connections. These gaskets are not accessible for sample collection and should be assumed to be asbestos containing

No other suspect materials were observed.

### **Recommendations:**

The in-line drop gaskets should be assumed to be asbestos-containing, until flanges are broken and the gaskets can be inspected and bulk sampled, if found to be non-rubber types or abated. Break all pipe flanges; abate non-rubber gaskets by standard wet methods, bag asbestos waste, and dispose of as asbestos containing waste. The General Contractor should coordinate with the abatement contractor to schedule abatement activities. The General Contractor may opt to cut out gaskets/flange areas and have the abatement contractor pick-up the pipe segments for disposal.

The quantity of the asbestos containing material does not meet reportable limits for this NESHAP facility.

### Cost:

Ten (10) in-line gaskets for potential abatement results in \$1,500 - \$2,500 for an estimated abatement cost.

### **Lead Survey Report**

Technology Serving People, Inc. (TSP) conducted a lead survey on December 18, 2012 on the Post Oak Lift Station FN 546, 322 ½ N. Post Oak Lane, Houston, Texas. The lift station consists of an in ground poured in place concrete wet well with two pumps, and a dry well facility with the discharge piping and valves. The facility is fenced and locked. Access to the dry well is through a metal grate top. There was no information available on the construction date of the lift station and no COH drawings were available at the time of the survey. Site inspection and bulk material sample collections were conducted using standard protocols specified by the Texas Asbestos Protection Act (TAHPA), Texas Environmental Lead Reduction Rules (TELRR), and National Emissions Standards for Hazardous Air Pollutants (NESHAP). All accessible areas of the lift station were inspected.

A & B Labs of Houston, Texas, an Accredited NELAP Lead Laboratory, performed all lead analyses.

### Findings:

Four (4) paint chip samples were taken of painted materials and equipment at the lift station to determine lead content.

Gray paint on exterior piping (PO546-Pb-01) had a lead content of 272 mg/Kg and is not a lead based paint. The paint is in general good condition. OSHA regulations apply to workers during demolition or renovation.

Red ballard paint (PO546-Pb-02) had a lead content of 924 mg/Kg and is a lead based paint. The paint is in poor condition. OSHA regulations apply to workers during demolition or renovation.

Gray paint on drywell piping (PO546-Pb-03) had a lead content of 291 mg/Kg and is not a lead based paint. The paint is in fair condition. OSHA regulations do not apply to workers during demolition or renovation.

Gray paint on a dry well valve (PO546-Pb-04) had a lead content of 269 mg/Kg and is not a lead based paint. The paint is in general fair condition. OSHA regulations apply to workers during demolition or renovation.

### **Recommendations:**

The lift station is scheduled for demolition in the future. Recycle all metal components including those with lead containing paint. No lead abatement required.

**OSHA Requirements:** The U.S. Occupational Safety and Health Administration (OSHA) does not specify a minimum lead concentration in its lead standard. Rather, it requires all employers to determine an exposure level and provide prescribed training, personal protective equipment, medical surveillance, and record keeping.

All paint which has a detectable level of lead is considered a lead-containing paint by OSHA and should be handled in the following ways:

- 1. Notify any contractor cutting, abrading or disturbing lead containing paint that the paint contains the listed concentrations of lead.
- Metal components should be dismantled by unfastening bolts where possible. Cutting, abrading or welding on painted metal components should be discouraged.

- 3. Disposal of painted metal components should be through a metal recycling company that accepts metal with lead paint.
- 4. Demolished concrete structures with lead-containing paint should be tested by the TCLP method, as required by the U.S. Environmental Protection Agency (EPA), to characterize the waste for disposal.

Cost: No lead abatement costs associated with this lift station.

### LABORATORY ANALYSIS REPORT



A & B Environmental Services, Inc. 10100 East Freeway, Suite 100 Houston, Texas 77029

A&B Job ID: 12120762

Report Date: 12/21/2012

Total No of Pages: 4

NVLAP Leb Code: 101793-0

TDSHS LICENCE #: 30-0080

ProjectName:

Post Oak Ln.#546 Lift Station, COHPWE

Client:

TSP Inc.

**Bruce Peters** 

Sample Collected By:

Eric LeBroog

Contact: Address :

2511 Willowick #229

Date Received:

12/18/2012

Diopez

Houston, Texas

Sample Received By:

Analysis by EPA Method 600/R-93/116 or 40 CPR, Part 763, Subject F as appropriate. Components of non-homogenous or layered materials are analyzed separately and reported individually if asbestos is found in one or more layers or components. Analysis of vinyl floor tile and other resinously bound materials using these methods may yield false negative results. The Client may consider confirmation of negative results on these materials by TEM analysis. Fiber quantification is based on calibrated visual estimation. State regulations prohibit classifying asbestos containing materials as having 1% or less unless verified by point count. The Client should consider additional quantification by point count for fitable materials containing 1-3% ashestos. These results pertain only to the items tested. This report may not be reproduced, except in full, without the written permission of A & B Environmental. The report must not be used by the Client to claim product endorsement by NVLAP or any agency of the U.S. Government. All samples are assumed to be in acceptable condition unless otherwise noted.

A & B Labs has analyzed the following samples . . .

Your Sample ID	Asbestos Detected Result	A&B Job Sample ID
P0546-01	No	12120762.01.A
P0546-02	· No	12120762.02.A
P0546-03	No	12120762,03.A

Thank you for choosing A & B Labs.

Oli Ba Rod.

Approved By: Alisha Rodriguez

Title:

**Project Manager** 

Analysi:

### TEST REPORT FOR BULK ASBESTOS BY PLM



A&B Job ID 12120762

Date: 12/21/2012

Client Name: TSP Inc.

....

Post Oak Ln.#546 Lift Station, COHPWE

Project Name: Date Received: 12/18/2012

Date Analyzed: 12/20/2012

Analyst Initial: HA

A&B Sample ID Client Sample ID	Sample Description	Asbestos Asbestos Detected Fibers	Other Fibers	Non - Fibrous Material
12120762.01 12120762.01.A P0546-01 Layer % of Total :100%	Gasket Granular/Vinyl Homogeneous Gray/Red	No	Cellulose 1-10%	Binder Glue Paint Vinyl
12120762.02 12120762.02.A P0546-02 Layer % of Total :100%	Gasket: Granular/Vinyl Homogeneous Gray/Red	No	Cellulose 1-10%	Binder Glue Paint Vinyl
<b>12120762.03</b> 12120762.03.A P0546-03 Layer % of Total :100%	Gasket Granular/Vinyl Homogeneous Gray/Red	No	Cellulose 1-10%	Binder Glue Paint Vinyl

### **Sample Condition Checklist**



A&B	JobID: 12120762		Date Receiv	ed: 12	/18/2012		Time	Received:	10:10AM		
Clien	t Name : TSP Inc.	<del></del>									
Tem	perature: 22.0°C		Sample pH	: NA	•						
Ther	mometer ID : 111601055		pH Paper ID	: NA							
			Che	ck Point	s				Yes	No	N/A
1.	Cooler seal present and sign	ed.	<del></del>								Х
2,	Sample(s) in a cooler.			·							Х
3.	If yes, ice in cooler.										x
4.	Sample(s) received with cha	in-of-cust	ody.						х		
5.	C-O-C signed and dated.								x		
6.	Sample(s) received with sig	ned sampl	le custody s	eal.							х
7.	Sample containers arrived in	ntact. (If n	o comment)	).					X		
8.	Matrix Water Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food		
							1.4				ı
							Y				<del>.</del>
9.	Sample(s) were received in				<u> </u>		(A)		X		
		appropriat	e container	(s).	L				<del></del> -	<u> </u>	
9.	Sample(s) were received in	appropriat	e container	(s).					x	<b>L</b>	
9. 10.	Sample(s) were received in Sample(s) were received wi	appropriat th proper   abeled.	e container	(s).					x		
9. 10. 11.	Sample(s) were received in Sample(s) were received wi All samples were logged or	appropriat th proper   abeled. -C ID's	e containen	(s).					X X		
9. 10. 11. 12.	Sample(s) were received in Sample(s) were received wi All samples were logged or Sample ID labels match C-O	appropriat th proper   abeledC ID's nes bottles	e container preservative found.	(s).			(y)		X X X		
9. 10. 11. 12. 13.	Sample(s) were received in Sample(s) were received wi All samples were logged or Sample ID labels match C-O Bottle count on C-O-C match	appropriat th proper   tabeledC ID's nes bottles for analys	re container preservative found.	(s).					X		
9. 10. 11. 12. 13.	Sample(s) were received in Sample(s) were received wi All samples were logged or Sample ID labels match C-O Bottle count on C-O-C match Sample volume is sufficient	appropriat th proper   tabeledC ID's nes bottles for analys	re container preservative found.	(s).					X		x
9. 10. 11. 12. 13. 14.	Sample(s) were received in Sample(s) were received with All samples were logged or I Sample ID labels match C-O Bottle count on C-O-C match Sample volume is sufficient Samples were received with	appropriat th proper   tabeledC ID's nes bottles for analys	re container preservative found.	(s).					X		
9. 10. 11. 12. 13. 14. 15. 16.	Sample(s) were received in Sample(s) were received with All samples were logged or Sample ID labels match C-O Bottle count on C-O-C match Sample volume is sufficient Samples were received with VOA vials completely filled.	appropriat th proper   abeledC ID's nes bottles for analys	reservative found. es requested	(s).					X		
9. 10. 11. 12. 13. 14. 15. 16.	Sample(s) were received in Sample(s) were received with All samples were logged or Sample ID labels match C-O Bottle count on C-O-C match Sample volume is sufficient Samples were received with VOA vials completely filled.  Sample accepted.	appropriat th proper   abeledC ID's nes bottles for analys	reservative found. es requested	(s).					X		
9. 10. 11. 12. 13. 14. 15. 16.	Sample(s) were received in Sample(s) were received with All samples were logged or Sample ID labels match C-O Bottle count on C-O-C match Sample volume is sufficient Samples were received with VOA vials completely filled.  Sample accepted.	appropriat th proper   abeledC ID's nes bottles for analys	reservative found. es requested	(s).					X		

Received by: Dlopez Check in by/date: Dlopez / 12/18/2012

Phone: 713-453-6060 www.ablabs.com

A & B Labs 10100 East Freeway, Suite 100 Houston, TX 77029 713-453-6060 Fax 713-453-6091



Page 1 of 1

### Asbestos Bulk Sample Chain-of-Custody

A&B Job ID:	12120	162		TAT (Chec	:k one):		late (2-4 hour tush (24 hour	
		s.		,	Reg	gular (3-5	working days	
Company:	Report to:	by SEAUW	v legg	Alecomoany:		Invoice	to:	
Address: -		LOWICE #2		Address:		7		
•	Houston	TEXAS					•	
Contact:	/3	ETERS		Contact:				•
Phone:	(7/3) 781			Phone:				
Fax:	(7/3) 781-	9094	<del></del>	Fax:				
Emali:	criclebros	g@eavthle	سلن ۱۷ و ا	Email:	<del></del>			•
				PO#:				
roject Name /#	Pack May	Ln.#546 L	fic	il hair	COHPU	/F		•
·		<b>1</b>		Janon,				
Sampler's Name	Exict-Le	Brocy JR.		impler's Compa	апу:	isp_	······································	•
Clier	it Sample#	A&B Şx ID		Type			Location	
1 00546-	nI	CIA	Rec	Gasket	Pipe	Flores	Exemon	Promo
	V1 .		1 1 1 1 1 1					- 1 1000 - 1 200
	· _				1	- Mary		11 4 4
2 P05+6-0	oz	024	Red	Gasket	Apel	lange	DayWe DayWe	
<sup>2</sup> POS-16-0 3 POS-16-0	oz				1	lange,	DryWe	
POS-16-0 POS-16-1	oz	024	Red	Gasket	1	lange,	DryWe	
POS-16-0 POS-16-0	oz	024	Red	Gasket	1	lange,	DryWe	
2 POS-16-0 3 POS-16-0 4 5	oz	024	Red	Gasket	1	lange,	DryWe	
POS-16-1 POS-16-1	oz	024	Red	Gasket	1	lange,	DryWe	
POS-16-1 3 POS-16-1 4 5 6 7 8	oz	024	Red	Gasket	1	lange,	DryWe	
POS-16-1 POS-16-1 POS-16-1 POS-16-1	oz	024	Red	Gasket	1	lanyc,	DryWe	
POS-16-1 3 POS-16-1 4 5 6 7 8 9	02	OZA CSA	Red	Gasket Gasket	Ripe F	lange,	DayWe DayWe	
2 POS-16-1 3 POS-16-1 4 5 6 7 8 9 10	oz	OZA CSA	Red	Gasket Gasket	Ripe F	lange,	DayWe DayWe	
POST6-1 3 POST6-1 4 5 6 7 8 9 10 Clerit Semple# is revised of Shipmen	OZ O3	OZA CSA	Red Red	Gasket Gasket	Ripe F	lange,	DayWe DayWe	
2 POS-16-1 3 POS-16-1 4 5 6 7 8 9 10.	OZ O3	OZA CSA s assigned by the la	Rec Rec b. Type a	Gasket Gasket  and location are o	Ripe F	lange,	DayWe DayWe	).0°c

### Eric LeBrocq

From:

"ABLabs Mail" <info@ablabs.com>

To:

<ericlebrocg@earthlink.net>

Sent:

Friday, December 21, 2012 12:03 PM

Attach:

12120762.pdf

Subject:

Job ID 12120762 Report, Post Oak Ln.#546 Lift Station, COHPWE

Date

: 12/21/2012 12:01:37 PM

From

: Alisha Rodriguez

Subject: Report, Post Oak Ln.#546 Lift Station, COHPWE

To

: ericlebrocq@earthlink.net

Attached is the final report for A&B Job ID 12120762.

This is an automated email. If you have any questions or concerns, please email our project managers at scarpenter@ablabs.com or alishar@ablabs.com.

This email is intended for use by the addressee only. It may contain information that is privileged, confidential, and exempt from disclosure under the law. If the recipient is not the addressee or his agent, please refrain from copying or distributing it.

Thank you for choosing A&B Labs.

(P) 713-453-6060

(F) 713-453-6091

www.ablabs.com

Job ID: 12120763



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name:

Post Oak Ln #546 Lift Station, COHPWE

Report To:

Client Name:

Attn:

TSP Inc.

**Bruce Peters** 

Client Address:

2511 Willowick #229

City, State, Zip: Houston, Texas,

P.O.#.:

Sample Collected By: Michael Solomon

Date Collected:

A&B Labs has analyzed the following samples...

Client Sample ID

Matrix

A&B Sample ID

P0546-Pb-01

Paint Chips

12120763.01

P0546-Pb-02

Paint Chips Paint Chips 12120763.02 12120763.03

P0546-Pb-03 P0546-Pb-04

**Paint Chips** 

12120763.04

Cli Ha Frally

Released By: Alisha Rodriguez

Title:

Project Manager

Date:

12/20/2012



This Laboratory is NELAP (T104704213-12-7) accredited. Effective: 07/01/2012; Expires: 03/31/2013

Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received: 12/18/2012 10:10

### LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID: 12120763

Date:

12/20/2012

General Term Definition

Back-Wt BRL

**Back Weight** 

cfu

**Below Reporting Limit** colony-forming units

Conc.

Concentration

D.F.

Dilution Factor

Front-Wt

Front Weight

LCS LCSD **Laboratory Check Standard** Laboratory Check Standard Duplicate

MS

Matrix Spike

MSD

Matrix Spike Duplicate

MW

Molecular Weight

Post-Wt

ppm Pre-Wt

parts per million Previous Weight

Post Weight

Qualifier

RegLimit RPD

Q

Regulatory Limit Relative Percent Difference

**RptLimit** 

Reporting Limit Sample Detection Limit

surr T

Surrogate Time

TNTC

SDL

Too numerous to count

Qualifier Definition



### LABORATORY TEST RESULTS

Job ID: 12120763

Date 12/20/2012

Client Name:

TSP Inc.

Attn: Bruce Peters

Project Name:

Post Oak Ln #546 Lift Station, COHPWE

Client Sample ID:

P0546-Pb-01

Job Sample ID:

Date Collected:

12120763.01

Time Collected:

Sample Matrix

Paint Chips

Other Information:

Test Method Parameter/Test Description Result Units DF Rpt Limit Reg Limit Q Date Time Analyst SW-846 6010C **Total Metals** Lead 272 mg/Kg 10 100 12/19/12 19:43 SS

LABORATORY TEST RESULTS

Job ID: 12120763

Date 12/20/2012

Client Name:

TSP Inc.

Post Oak Ln #546 Lift Station, COHPWE

Attn: Bruce Peters

Project Name:

Client Sample ID:

P0546-Pb-02

Job Sample ID:

12120763.02

Date Collected:

Time Collected:

Sample Matrix

Paint Chips

Other Information:

Test Method Parameter/Test Description

Units Result

Rpt Limit Reg Limit Q

Date Time Analyst

SW-846 6010C **Total Metals** 

Lead 924 mg/Kg

100

DF

10

12/19/12 19:59 SS

LABORATORY TEST RESULTS

Job ID: 12120763

Date 12/20/2012

Client Name: Project Name: TSP Inc.

Post Oak Ln #546 Lift Station, COHPWE

Client Sample ID:

P0546-Pb-03

Job Sample ID:

Attn: Bruce Peters

Date Collected:

Time Collected: Other Information: Sample Matrix

12120763.03

Paint Chips

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
CH 045 50405	T-1-1 M-1-1-							

**Total Metals** SW-846 6010C

12/19/12 20:04 SS 291 mg/Kg 10 100 Lead



Job ID: 12120763

Date 12/20/2012

Client Name:

TSP Inc.

Attn: Bruce Peters

Project Name:

Post Oak Ln #546 Lift Station, COHPWE

Client Sample ID:

P0546-Pb-04

Job Sample ID:

12120763.04

Date Collected:

Time Collected:

Sample Matrix

Paint Chips

Other Information:

DF Rpt Limit Reg Limit Q Date Time Analyst Units Test Method Parameter/Test Description Result

SW-846 6010C **Total Metals** 

> 269 mg/Kg 100 12/19/12 20:08 SS Lead 10

### QUALITY CONTROL CERTIFICATE



Job ID: 12120763

Date:

12/20/2012

Analysis: Total Metals

Method:

SW-846 6010C

Reporting Units:

mg/Kg

QC Batch ID : Qb12122028

Created Date: 12/19/12

Created By: Ssrinivasan

Samples in This QC Batch : 12120763.01,02,03,04

Digestion:

PB12122036

Prep Method: SW-846 6010C

Prep Date: 12/19/12 11:00 Prep By:

**PRKasar** 

QC Type: Method Blank Parameter	CAS#	Result	Units	D.F.	RptLimit	Qual
Lead	743 <del>9-</del> 92-1	BRL	mg/Kg	1	10	

Lead	BRL	BRL			20			
Parameter	Result	Result	Units	RPD	CtrlLimit			Qual
QC Sample ID: 12120	<b>0761.03</b> OCSample	Sample			RPD		předa Taronia	
QC Type: Duplicate								

QC Type: LCS and LCS!									
	LCS LC	s LCS	LCSD	LCSD	LCSD	ali Tanan	RPD	%Recovery	
Parameter	Spk Added Res	The second secon	Spk Added	Result	% Rec	RPD	CtrlLimit	CtrlLimit	Qual
Lead	7418 8738	3.44 118	7418	7790.70	105	11.5	20	70-130	

A & B Labs 10100 East Freeway, Suite 100 — Houston, TX 77029 713-453-6060 Fax 713-453-6091

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Page 1 of \_\_\_

	3-453-6060 F8		£ 44.46.9	~		•	
	) Č	WTI -2	Sharing But	Sample Chain-of-	Custody		* , <b>1</b>
A&	عال ا B Job ID:	20763	end	TAT (AL		Improdute 19 4 hours	·
Pio	www.		100	TAT (Chec	ak one):	Immediate (2-4 hour) Rush (24 hour)	
					Regu	lar (3-5 working days)	<b>V</b>
ί.		Report to:	*	· /a		involce to:	
Co	mpany:	TECHNOLOG	y Seaun	v Levis Mempany:		CANA	
	dress:	2511 WIL	covier #	Address:	<del>سج</del> يد د اوسي	3717	
		Housron	TEXAS				
Col	ntact:	Benez 7	ETERS	Contact:		4	
Pho	one:	(7/3) 781-	9000	Phone:	•		
Fax	ε _	(7/3) 781-		Fax:	****		
Em	ali:	criclebroog	@carthle	tinet Email:			· · · · · · · · · · · · · · · · · · ·
	•			PO#:			
Pro	ject Name / #:	Post DAK	n#546 L	Iff Station, C	COHPWI	<b>-</b>	
	npler's Name:	Michael	Solomon	Sampler's Compa	any: TS	P	
			<u> </u>		arry.		
							··
		Sample #	A&B \$x ID	Type		Location	
1	Cilent P0546 - P		A&B \$x ID OXA	Gray Paint	Exten		
1 2					Exteni Metait		RIOIL
1 2 3	P0546 - P	b-01 b-02	O/A	Gray Paint		on Pipins Bullands, Exte	RIOIL
	P0546 - P P0546 - P	b-01 b-02 b-03	CIA CIZA	Gray Paint Red Paint	Metait	on Pipins Bullands, Exte	RIOIL
3	P0546 - P P0546 - P P0546 - P	b-01 b-02 b-03	CXA CZA C&A	Gray Paint Red Paint Goay Paint	Meleit	on Pipins Bullands, Exte	RIOIL
3	P0546 - P P0546 - P P0546 - P	b-01 b-02 b-03	CXA CZA C&A	Gray Paint Red Paint Goay Paint	Meleit	on Pipins Bullands, Exte	RIOIL
3 4 5 .	P0546 - P P0546 - P P0546 - P	b-01 b-02 b-03	CXA CZA C&A	Gray Paint Red Paint Goay Paint	Meleit	on Pipins Bullands, Exte	RIOR
3 4 5 6	P0546 - P P0546 - P P0546 - P	b-01 b-02 b-03	CXA CZA C&A	Gray Paint Red Paint Goay Paint	Meleit	on Pipins Bullands, Exte	RIOR
3 4 5 6 7 8	P0546 - P P0546 - P P0546 - P	b-01 b-02 b-03	CXA CZA C&A	Gray Paint Red Paint Goay Paint	Meleit	on Pipins Bullands, Exte	RIOIL
3 4 5 6 7 8	P0546 - P P0546 - P P0546 - P	b-01 b-02 b-03	CXA CZA C&A	Gray Paint Red Paint Goay Paint	Meleit	on Pipins Bullands, Exte	RIOR
3 4 5 6 7 8 9 10 Clier	P0546 - P P0546 - P P0546 - P P0546 - P	2-01 2-02 5-03 2-04 *	CXA CXA CXA CXA cx4Q	Gray Paint Red Paint Goay Paint	Meteit Puping Valves	on Pipins Bullands, Exte DryWell DryWell	
3 4 5 6 7 8 9 10 Citer	P0546 - P P0546 - P P0546 - P P0546 - P	5-01 5-02 5-03 5-04	CXA CXA CXA CXA cx4Q	Gray Paint Red Paint Gray Paint Gray Paint	Meteit Puping Valves	on Pipins Bullands, Exte DryWell DryWell	PEIDIL
3 4 5 6 7 8 9 10.	P0546 - P P0546 - P P0546 - P P0546 - P	12-01 12-02 12-03 13-04 10-03 10-04	CAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Gray Paint Red Paint Gray Paint Gray Paint Gray Paint	Meteit Puping Valves	on Pipins Bullands, Exte DryWell DryWell	
3 4 5 6 7 8 9 10.	P0546 - P P0546 - P P0546 - P P0546 - P P0546 - P	12-01 12-02 12-03 13-04 10-03 10-04	CLA CLA CLA CLA Sessioned by the la	Gray Paint Red Paint Gray Paint Gray Paint Gray Paint	Meteit Puping Valves	on Pipins Bullands, Exte DryWell DryWell  DryWell	20.00
3 4 5 6 7 8 9 10 Citer	P0546 - P P0546 - P P0546 - P P0546 - P P0546 - P	12-01 12-02 12-03 13-04 10-03 10-04	CAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Gray Paint Red Paint Gray Paint Gray Paint Gray Paint	Meteit Puping Valves	on Pipins Bullands, Exte DryWell DryWell  DryWell	D) J,O °

### <u>a.b</u>

### **Sample Condition Checklist**

A&B	JobID: <b>12120763</b>	Date Receive	ed: 12,	/18/2012		Time	Received: 1	0:10AM		
Clier	t Name: TSP Inc.			<u></u>						
Tem	perature : 22.0°C	Sample pH:	NA		·· - · · · · · · · · · · · · · · · · ·	<del></del>	****	<del> </del>		
Ther	mometer ID : <b>111601055</b>	pH Paper ID	: NA			<del></del>		· · · · ·		
									•	
		Che	ck Point	s	•	·		Yes	No	N/A
1.	Cooler seal present and signed.									
2.	Sample(s) in a cooler.								·	х
3.	If yes, ice in cooler.									х
4.	Sample(s) received with chain-of-	custody.						Х		
5.	C-O-C signed and dated.							X		
6.	Sample(s) received with signed s	ample custody se	al.						X	
7.	Sample containers arrived intact.	(If no comment).						х		
8.	l.	quid Siudge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	
-				<u> </u>				<u> </u>	V	<u> </u>
9.	Sample(s) were received in appro	<del></del>	s).					х	1	
9. 10.	Sample(s) were received with pro	per preservative	s).					х		
	Sample(s) were received with pro All samples were logged or labele	per preservative	s).					x x		
10.	Sample(s) were received with pro	per preservative	s).					х		
10. 11.	Sample(s) were received with pro All samples were logged or labele	per preservative d.	s).					x x		
10. 11. 12.	Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID	per preservative d. s						x x x		
10. 11. 12. 13.	Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID' Bottle count on C-O-C matches bo	per preservative d. s ittles found. alyses requested						x x x		
10. 11. 12. 13.	Sample(s) were received with pro Ali samples were logged or labele Sample ID labels match C-O-C ID' Bottle count on C-O-C matches bo Sample volume is sufficient for an	per preservative d. s ittles found. alyses requested						x x x x		x
10. 11. 12. 13. 14.	Sample(s) were received with pro All samples were logged or labeled Sample ID labels match C-O-C ID' Bottle count on C-O-C matches both Sample volume is sufficient for an Samples were received within the	per preservative d. s ittles found. alyses requested						x x x x		x
10. 11. 12. 13. 14. 15. 16.	Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID' Bottle count on C-O-C matches bo Sample volume is sufficient for an Samples were received within the VOA vials completely filled. Sample accepted. ments: Include actions taken to re	per preservative d. s ttles found. alyses requested hold time.		em:				x x x x x		x
10. 11. 12. 13. 14. 15. 16.	Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID' Bottle count on C-O-C matches bo Sample volume is sufficient for an Samples were received within the VOA vials completely filled. Sample accepted.	per preservative d. s ttles found. alyses requested hold time.		em:				x x x x x		x
10. 11. 12. 13. 14. 15. 16.	Sample(s) were received with pro All samples were logged or labele Sample ID labels match C-O-C ID' Bottle count on C-O-C matches bo Sample volume is sufficient for an Samples were received within the VOA vials completely filled. Sample accepted. ments: Include actions taken to re	per preservative d. s ttles found. alyses requested hold time.		em:				x x x x x		x

Received by: Dlopez Check in by/date: Dlopez / 12/18/2012

Phone: 713-453-6060 www.ablabs.com





**Top of Lift Station** 



**Dry Well Piping** 



Piping Flange Gasket (PO546-01) ND



Dry Well Flange Gasket (PO546-02) ND



Dry Well Flange Gasket (PO546-03) ND



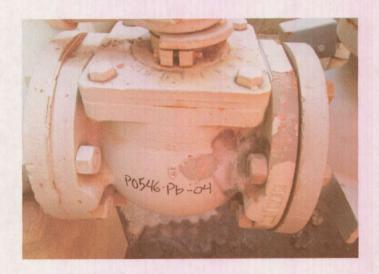
Gray Piping Paint (PO546-Pb-01) 272 mg/Kg



Red Ballard Paint (PO546-Pb-02) 924 mg/Kg

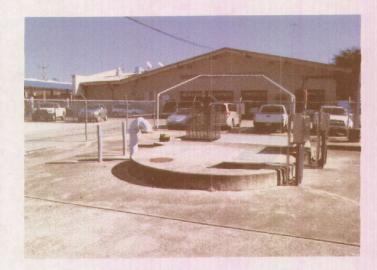


Drywell Gray Piping Paint (PO546-Pb-03) 291 mg/Kg



Drywell Valve Paint (PO546-Pb-04) 269 mg/kg





**Top of Lift Station** 



**Dry Well Piping** 



Piping Flange Gasket (PO546-01) ND



Dry Well Flange Gasket (PO546-02) ND



Dry Well Flange Gasket (PO546-03) ND



Gray Piping Paint (PO546-Pb-01) 272 mg/Kg



Red Ballard Paint (PO546-Pb-02) 924 mg/Kg



Drywell Gray Piping Paint (PO546-Pb-03) 291 mg/Kg



Drywell Valve Paint (PO546-Pb-04) 269 mg/kg





**Top of Lift Station** 



**Dry Well Piping** 



Piping Flange Gasket (PO546-01) ND



Dry Well Flange Gasket (PO546-02) ND



Dry Well Flange Gasket (PO546-03) ND



Gray Piping Paint (PO546-Pb-01) 272 mg/Kg



Red Ballard Paint (PO546-Pb-02) 924 mg/Kg



Drywell Gray Piping Paint (PO546-Pb-03) 291 mg/Kg



Drywell Valve Paint (PO546-Pb-04) 269 mg/kg





**Top of Lift Station** 



**Dry Well Piping** 



Piping Flange Gasket (PO546-01) ND



Dry Well Flange Gasket (PO546-02) ND



Dry Well Flange Gasket (PO546-03) ND



Gray Piping Paint (PO546-Pb-01) 272 mg/Kg



Red Ballard Paint (PO546-Pb-02) 924 mg/Kg



Drywell Gray Piping Paint (PO546-Pb-03) 291 mg/Kg



Drywell Valve Paint (PO546-Pb-04) 269 mg/kg





**Top of Lift Station** 



**Dry Well Piping** 



Piping Flange Gasket (PO546-01) ND



Dry Well Flange Gasket (PO546-02) ND



Dry Well Flange Gasket (PO546-03) ND



Gray Piping Paint (PO546-Pb-01) 272 mg/Kg



Red Ballard Paint (PO546-Pb-02) 924 mg/Kg



Drywell Gray Piping Paint (PO546-Pb-03) 291 mg/Kg

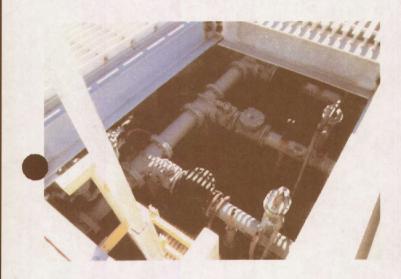


Drywell Valve Paint (PO546-Pb-04) 269 mg/kg





**Top of Lift Station** 



**Dry Well Piping** 



Piping Flange Gasket (PO546-01) ND



Dry Well Flange Gasket (PO546-02) ND



Dry Well Flange Gasket (PO546-03) ND



Gray Piping Paint (PO546-Pb-01) 272 mg/Kg



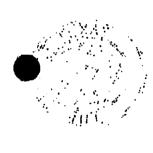
Red Ballard Paint (PO546-Pb-02) 924 mg/Kg



Drywell Gray Piping Paint (PO546-Pb-03) 291 mg/Kg



Drywell Valve Paint (PO546-Pb-04) 269 mg/kg



# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

## TECHNOLOGY SERVING PEOPLE INC

is certified to perform as a

### Asbestos Consultant Agency

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

Frid Lang

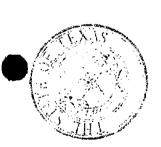
COMMISSIONER OF HEALTH DAVID LAKEY, MD.

> License Number: 100035 Control Number: 96386

Expiration Date: 2/3/2013

(Void After Expiration Date)

NON-TRANSFERABLE VOID IF ALTERED



# TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

## TECHNOLOGY SERVING PEOPLE INC

is certified to perform as a

## Lead Firm

set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked. in the Stats of Texas and is hereby governed by the rights, privileges and responsibilities

My Ling

David L. Lakey, M.D. Commissioner of Health

> License Number: 2110316 Control Number 6433

Expiration Date 3/30/2014 (Void After Expiration Date)

Department of State Health Services certifies that

MICHAEL E SOLOMON

is certified as a

Lead Inspector

Certification No: 2060695

Control No: 6175

Expires: 10/18/2013

Dur chap

Parvid L. Lakey, M.D. Commissioner of Health

## **Texas Department of State Health Services**

Asbestos Individual Consultant

**BRUCE D PETERS** 

License No. 105336

Control No. 96363

Expiration Date: 7/31/2014

## Texas Department of State Health Services

Asbestos Individual Consultant

ERIC F LEBROCQ JR License No. 105375 Control No. 96327

Expiration Date: 4/3/2014



## TEXAS DEPARTMENT OF STATE HEALTH SERVICES

## A & B ENVIRONMENTAL SERVICES INC

is certified to perform as a

## Asbestos Laboratory PCM, PLM

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

Durch Laham

DAVID LAKEY, M.D. COMMISSIONER OF HEALTH

License Number: 300080

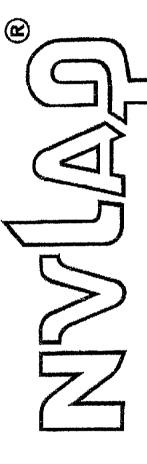
Control Number: 95814

Expiration Date: 5/18/2014

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

United States Department of Commerce - National Institute of Standards and Technology



# Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101793-0

## A & B Environmental Services, Inc. Houston, TX

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, isted on the Scape of Accreditation, for:

## **BULK ASBESTOS FIBER ANALYSIS**

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009). This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

2012-01-01 through 2012-12-31

Effective dates

Toso , unres

Pavid F. Aderman

For the National Institute of Standards and Technology



## National Voluntary Laboratory Accreditation Program



## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

A & B Environmental Services, Inc.

10100 I-10 East, Suite 100 Houston, TX 77029 Ms. Rita Wells

Phone: 713-453-6060 Fax: 713-453-6091

E-Mail: rwells@ablabs.com URL: http://www.ABLABS.com

**BULK ASBESTOS FIBER ANALYSIS (PLM)** 

**NVLAP LAB CODE 101793-0** 

NVLAP Code

Designation / Description

18/A01

EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation

Samples

2012-01-01 through 2012-12-31

Effective dates

Pavid T. Molerman

For the National Institute of Standards and Technology

Page 1 of 1 NVLAP-01S (REV. 2005-05-19)

## Asbestos Hazards Characterization (AHC) List Post Oak Lift Station FN 546 322 ½ N. Post Oak Lane Houston, Texas

<u>Material</u>	Asbestos Content	<u>AHC</u>
PO546-01 (Red Rubber Flange Gasket)	ND	A- No Asbestos Found
PO546-02 (Red Rubber Flange Gasket)	ND	A- No Asbestos Found
PO546-03 (Red Rubber Flange Gasket)	ND	A- No Asbestos Found

Drop gaskets are assumed to be asbestos-containing until flanges can be broken and inspected and/or bulk sampled.

## Lead Hazards Characterization (LHC) List Post Oak Lift Station FN 546 322 ½ N. Post Oak Lane Houston, Texas

<u>Material</u>	<b>Lead Content</b>	<u>LHC</u>
PO546-Pb-01 Gray Piping Paint	272 mg/Kg	A-Allowable Lead Level
PO546-Pb-02 Red Ballard Paint	924 mg/Kg	C2- Lead Present
PO546-Pb-03 Gray Piping Paint	291 mg/Kg	A-Allowable Lead Level
PO546-Pb-04 Gray Valve Paint	269 mg/Kg	A-Allowable Lead Level

## **CHECK LIST FOR ASBESTOS SURVEYS** NAME OF THE FACILITY: 277 1/2 FACILITY ADDRESS: CONSULTANT INSPECTOR(S) NAME: Note: Items/information listed below must be included in the report. Use this check list to ensure completeness of your report. Mark "X" or "check" in front of the items/information included in the report. Submit completed check list with the report. 1. Statement...if AHERA format was followed for this survey. 2. Date and Contract number of the survey. 3. Scope of work. 4. Copy of the Inspector(s) TDH License. 5. V Name and Address of the building. 6. Statement...if building records were used in the inspection and if not, Why? 7. Date of construction and last renovation (if any) of the building. 8. List of areas that were not inspected. Explain. 9. Procedures and protocols used to collect bulk samples. 10. List of measures taken to prevent potential fiber release from locations where samples were extracted. 11. V Drawings and photographs with sample locations marked to facilitate future location of materials sampled. 12. Statement...if an accredited (NVLAP) laboratory was used for Sample Analysis. 13. Copy of the Laboratory accreditation certificate. 14. Copy of the laboratory analysis results of the bulk samples. 15. Statement (by the laboratory) regarding Quality Assurance and Quality Control performed. 16. Copy of the chain of custody form for the bulk samples. 17. List of materials assumed to be containing asbestos. 18. City of Houston Asbestos Hazard Categorization (AHC) list and categorization of all the samples according to the AHC list.

## If Asbestos Present:

20. NA Statement...if repeat analysis using point counting with PLM was done as required by the city for the samples that show less than 5 % asbestos.

19. Condition of the building structure such as deterioration, structural problems, or other damages.

- 21. \_\_\_ Photographs of all Materials proven to be ACM.
- 22. All asbestos containing materials classified as Friable or Non-Friable.
- 23. <a href="Recommendations">Recommendations made for all Asbestos Containing Materials?</a>
- 24. Reasonably accurate quantities of ACM's estimated and given in the report.
- 25. Cost estimations given for abatement.
- 26. NR Operation and Maintenance Plans recommended
- 27. Cover letter (in report) contain executive summary or executive summary begin the report format.

Signed:

Name:

RIC F. LEBROCO, J.

Title:

HSBESTOS CONSULTAM

CHECK LIST FOR LEAD SURVEYS
NAME OF THE FACILITY: POST DAK 1.5. FN 546
FACILITY ADDRESS: 3221/2 N. POSMEAKLANA
DATE OF THE SURVEY: 12/18/12 CONSULTANT: TSPING,
INSPECTOR(S) NAME: MICHAEL SOLOMON
Note: Items/information listed below must be included in the report. Use this check list to ensure completeness of your report. Mark "X" or "check" in front of the items/information included in the report. Submit completed check list with the report.
1. Statement if "HUD Guidelines for Evaluation and Control of Lead Based Paint in Housing" or any other criteria was followed for the survey.
2 Date and Contract number of the survey.
3. Scope of the work.
4. Copy of the Inspector (s) TDH Certificate.
5. Name and Address of the building.
6. Statement if building records were used in the inspection, and if not, Why?
7 Date of construction and last renovation (if any) of the building.
8. List of areas that were not inspected. Explain.
9. Condition of the building structure such as deterioration, structural problems or other damages.
10. List of components assumed to have lead based paint or coating, if any.
City of Houston Lead Hazard Categorization (LHC) list and categorization of all the samples according to the LHC list.
If XRF Analyzer Used:
12. NA Performance Characteristics Sheet (PCS) for the XRF equipment/s used.
13. NA Calibration Check Test Results (Form 7.2, HUD Guidelines, or equivalent).
14. AA Statementif HUD Guidelines were followed for Calibration Check Test of the XRF equipment and replacement XRF equipment, if used.
15. Installation date and type of source for XRF equipment and replacement equipment, if used.
16. NA Drawings and photographs with XRF reading locations marked to facilitate future location of XRF readings.
If Samples Taken For Laboratory Analysis:
17. Procedures and protocols used to collect paint chip samples.
18. Copy of the chain of custody form for samples.
19. ✓ Statementif an accredited (NLLAP/ELLAP) laboratory was used for Sample Analysis.

## LEAD CHECK LIST

Page 2

- 20. / Copy of the Laboratory accreditation certificate.
- 21. Copy of the laboratory analysis results of the paint chip samples and other PbCMs.
- 22. Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.
- 23. \_\_\_ Drawings and photographs with sample locations marked to facilitate future location of coating materials sampled.

## If Lead Found:

- 24. Photographs of all component areas proven to have lead.
- 25. Recommendations for all components proven to have lead based paint or coatings.
- 26. Recommendations for Operation and Maintenance Plans.
- 27. Estimated quantities of Lead Containing Materials.
- 28. Cost estimations for abatement.
- 29. Cover letter (in report) containing executive summary or executive summary at the beginning of the report format.

Signed:

MICHARL SOLOMON LEAD INSPECTOR